

In The Claims

Please amend the claims as follows:

1. (Amended) A liquid crystal display usable with a back light source supplying light, comprising:

AM a cholesteric liquid crystal (CLC) polarizer to transmit one of left-circularly polarized light and right-circularly polarized light from the back light source, and to reflect other light not transmitted;

a lower substrate on which a CLC color filter layer is formed wherein the CLC color filter layer transmits the circularly polarized light from the CLC polarizer having certain wavelengths and reflects other light not transmitted;

a liquid crystal layer to selectively revolve a polarized direction of the circularly polarized light from the CLC color filter layer;

an upper substrate over the liquid crystal layer and having a hologram diffuser wherein the hologram diffuser diffuses the revolved circularly polarized light from the liquid crystal layer; and

a linear polarizing transformer to transform the diffused circularly polarized light from the hologram diffuser into linearly polarized light.

AS 3. (Amended) A liquid crystal display usable with a back light source supplying light, comprising:

a cholesteric liquid crystal (CLC) polarizer to transmit one of left-circularly polarized light and right-circularly polarized light from the back light source, and to reflect other light not transmitted;

a lower substrate on which a CLC color filter layer is formed wherein the CLC color filter layer transmits the circularly polarized light from the CLC polarizer having certain wavelengths and reflects other light not transmitted;

a $\lambda/4$ film to transform the circularly polarized light from the CLC color filter layer into linearly-polarized light;

a first linear polarizer above the $\lambda/4$ film;

a liquid crystal layer above the first linear polarizer and to selectively transmit the linearly-polarized light; and

an upper substrate over the liquid crystal layer having a hologram diffuser wherein the hologram diffuser diffuses the linearly-polarized light from the liquid crystal layer.

7. (Amended) A liquid crystal display usable with a back light source supplying light, comprising:

a cholesteric liquid crystal (CLC) polarizer to transmit one of left-circularly polarized light and right-circularly polarized light from the back light source, and to reflect other light not transmitted;

a $\lambda/4$ film to transform the circularly polarized light from the CLC polarizer into linearly-polarized light;

a linear polarizer above the $\lambda/4$ film;
a lower substrate above the linear polarizer;
a liquid crystal layer above the lower substrate; and
an upper substrate over the liquid crystal layer and having a hologram diffuser wherein the hologram diffuser diffuses the linearly-polarized light from the liquid crystal layer.

8. (Amended) A liquid crystal display usable with a back light source supplying light, comprising:

a collimating member to collimate the light supplied by the back light source;

a cholesteric liquid crystal (CLC) polarizer to transmit one of left-circularly polarized light and right-circularly polarized light from the collimating member, and to reflect other light not transmitted;

a lower substrate on which a CLC color filter layer is disposed wherein the CLC polarizer transmits light from the CLC polarizer having certain wavelengths and reflects other light not transmitted;

a liquid crystal layer;

an upper substrate over the liquid crystal layer and having a hologram diffuser and a planarization layer to planarize the hologram diffuser wherein the hologram diffuser diffuses light from the liquid crystal layer; and

Amended
a linear polarizing transformer polarizing the diffused light into linearly-polarized light.

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10. (Amended) A liquid crystal display, comprising:
a back light unit to produce and supply light;
a collimating member to collimate the light supplied by the back light unit;
a cholesteric liquid crystal (CLC) polarizer to transmit circularly polarized light of a predetermined direction from the collimating member, and to reflect other light not circularly polarized in the predetermined direction;
a lower substrate above the CLC polarizer;
an upper substrate above the lower substrate and including a holographic diffuser disposed thereon and wherein the hologram diffuser diffuses light without altering a polarization of the light;
a liquid crystal layer disposed between the lower substrate and the upper substrate;
a color filter layer to transmit only predetermined wavelengths of light disposed between the lower substrate and the upper substrate; and
an upper linear polarizer above the upper substrate and polarizing the diffused light from the holographic diffuser.

AM 15. (Amended) The liquid crystal display according to claim 10, further comprising:

a compensating film disposed between the $\lambda/4$ film and the upper linear polarizer to transform light into linearly-polarized light.

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Please add the following claims:

16. (NEW) The liquid crystal display according to claim 1, wherein the hologram diffuser is positioned below the upper substrate.

17. (NEW) The liquid crystal display according to claim 1, further comprising:

A10 a planarization layer disposed on the hologram diffuser to planarize the hologram diffuser.

18. (NEW) The liquid crystal display according to claim 1, further comprising:

a collimating member disposed below the lower substrate to collimate the light supplied by the back light source and direct it toward the CLC polarizer.

19. (NEW) The liquid crystal display according to claim 3, further comprising:

a planarization layer disposed on the hologram diffuser to planarize the hologram diffuser.

20. (NEW) The liquid crystal display according to claim 3, further comprising:

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a collimating member disposed below the lower substrate to collimate the light supplied by the back light source and direct it toward the CLC polarizer.

21. (NEW) The liquid crystal display according to claim 7, further comprising:

a planarization layer disposed on the hologram diffuser to planarize the hologram diffuser; and

an absorbing type color filter layer disposed above the liquid crystal layer.

22. (NEW) The liquid crystal display according to claim 7, further comprising:

a collimating member disposed below the lower substrate to collimate the light supplied by the back light source and direct it toward the CLC polarizer.

23. (NEW) The liquid crystal display according to claim 8, wherein the linear polarizing transformer includes:

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a $\lambda/4$ film; and

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a linear polarizer over the $\lambda/4$ film.--
